DVD Player/ Recorder DVDR3380

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Thank you for choosing Philips.

Need help fast?

Read your Quick Use/Start Guide and/or User Manual first for quick tips that make using your Philips product more enjoyable.
If you have read your instructions and still need assistance, you may access our online help at ***www.philips.com/support***

R RW Dual Media

G-CODE®

PHILIPS

CAUTION
VISIBLE AND INVISIBLE LASER
RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM

Copyright notice
"The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes."

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system/ player/recorder may require a playability enhancement or upgrade. As DVD technology advances, these enhancement will become common and will be easy to complete.
Go to www.philips.com/support for software upgrade.

For Customer Use:

Read carefully the information located at the bottom or rear of your DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVD RECORDER
DVDR3380

Serial No. _____

LASER

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 790 nm (CD)
Output Power	30 mW (DVD+RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

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English

中文 (繁體)

Bahasa Melayu

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only, unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number: 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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i.Link is also known as 'FireWire' and 'IEEE1394'. This connection is used for the transfer of high bandwidth digital signals as used by digital video (DV) camcorders. It carries all audio and video signals via a single cable.

English

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Care and Safety Information

CAUTION!
High voltage! Do not open the device. You run the risk of getting an electric shock.

The machine does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

Setup precautions

Finding a suitable location
– Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
– Do not position the set on top of other equipment that might heat it up (e.g., receiver or amplifier).
– Do not put anything above or under the set (e.g., CDs, magazines).
– Install this unit near the AC outlet and where the AC power plug can be reached easily.

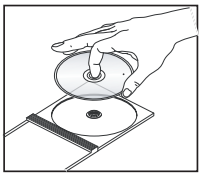
Space for ventilation
– Place the apparatus in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4") clearance from the rear and the top of the set and 5 cm (2") from the left and right to prevent overheating.

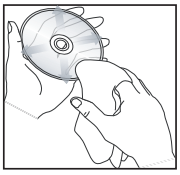
Avoid high temperatures, moisture, water and dust
– Apparatus shall not be exposed to dripping or splashing.
– Do not place any sources of danger on the apparatus (e.g., liquid filled objects, lighted candles).

Cleaning discs

Some problems occur because the disc inside the recorder is dirty (frozen picture, sound disruptions, picture distortions). To avoid these problems, discs should be cleaned on a regular basis.

To clean a disc, use a micro fibre cleaning cloth and wipe the disc from the centre to the edge in a straight line.





CAUTION!
Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static sprays intended for analogue discs.

Since the optical unit (laser) of the recorder operates at a higher power than regular DVD or CD players, cleaning CDs intended for DVD or CD players may damage the optical unit (laser). Therefore, refrain from using a cleaning CD.

About recycling

These operating instructions have been printed on non-polluting paper. This electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre. Please observe the local regulations regarding disposal of packaging materials, exhausted batteries, and old equipment.

Introduction

Your Philips recorder allows you to record the TV programs or duplicate camcorder recordings to a DVD±RW or DVD±R and play pre-recorded DVDs. The recordings you make on the recorder will play on DVD players and DVD-ROM drives. The DVD±R discs have to be finalized before they can be played back on other DVD players.

Before you start using this recorder, complete the basic connections and set-up in three easy steps.

Step 1: Basic recorder connections

Step 2: Optional connections for other devices

Step 3: Basic installation and set-up

Please take time to read this user manual before using your recorder. It contains important information and notes regarding the operations of the recorder.

Helpful Hints:
– If you have questions or if problems come up during operation, please see the chapter 'Troubleshooting'.
– If you need further assistance, please call the customer support service for your country. The corresponding telephone numbers and email addresses are given in the guarantee booklet.
– Refer to the type plate on the rear or bottom of the product for identification and supply ratings.

Accessories supplied

– Remote control and batteries
– Audio/video cable
– RF coaxial cable
– Quick Start Guide

Region codes

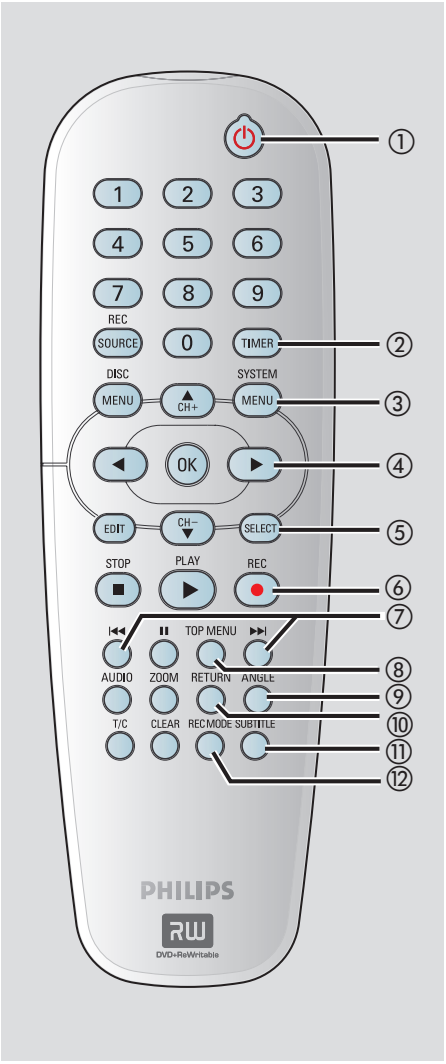
DVD films are usually not released at the same time in all regions of the world, thus all DVD players are keyed to a specific region code.

This device will only play **Region 3** DVDs or DVDs manufactured to be played in all regions ('ALL'). DVDs from other regions cannot be played on this recorder.

Copyright notice

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

Remote Control



① **STANDBY-ON** ⏻
– Turns on the recorder or switch to standby mode.

② **TIMER**
– Enters/exits the timer recording menu.

③ **SYSTEM-MENU**
– Enters/exits the system menu.

④ ◀ ▶ : Cursor keys for moving to the left or right, do a forward/reverse search.
▲▼ : Cursor keys for moving up/down or changing the recorder's TV tuner channel.

⑤ **SELECT**
– Selects a track/chapter/file in the program menu.

⑥ **REC** ●
– Starts recording the current TV channel or the current video input source.
– Press repeatedly to set up a One Touch Recording at 30, 60 or 90 minutes interval.

⑦ ⏮ ⏭
– Skips to previous or next chapter/track.
– Press and hold to make a fast forward/ fast reverse search.

⑧ **TOP MENU** *(For DVD±R/±RW only)*
– Enters the disc editing menu.

⑨ **ANGLE**
– Selects a DVD disc camera angle (if available).

⑩ **RETURN**
– Returns to the previous menu of a video CD (VCD) or some DVDs.

⑪ **SUBTITLE**
– Selects a DVD subtitle language.

⑫ **REC MODE**
– Toggles between recording modes : HQ, SP, EP or SLP.
This determines the quality of the recording and the amount/length of time you can record on a DVD±R/±RW.

⑬ **Numeric keypad**
– Selects a chapter/track number to play.
– Selects the recorder's preset TV tuner channel.

⑭ **REC SOURCE**
– Selects the recorder's input source.

⑮ **DISC MENU**
– Access DVD disc menu or Index Picture screen of a DVD±R/±RW.
– Access VCD disc menu when PBC is turned on.

⑯ **OK**
– Stores/confirms an entry.
– Displays/removes the status bar.

⑰ **EDIT** *(For DVD±R/±RW only)*
– Enters/exits the video editing menu.

⑱ **PLAY ▶**
– Plays a disc.
– Plays a recording

⑲ **STOP ■**
– Stops playback/recording.
– Press and hold the button to open/ close the disc tray.

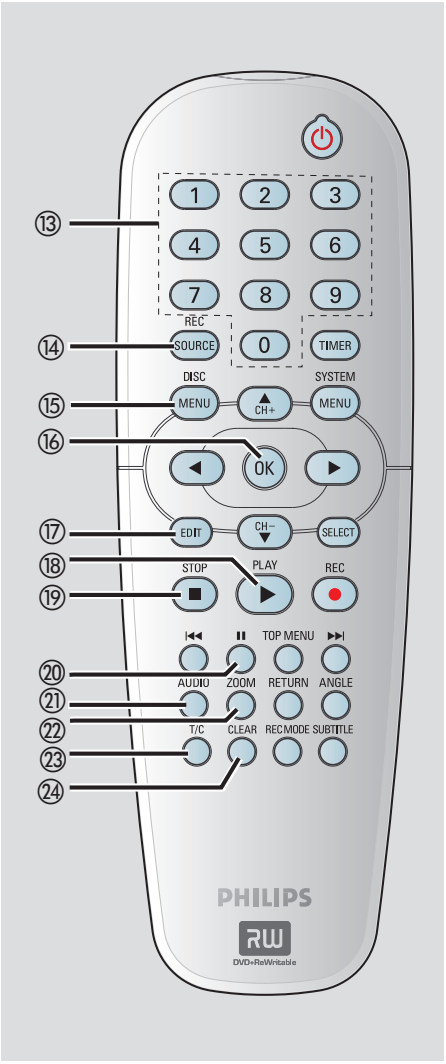
⑳ **II**
– Pauses the playback or recording.
– Press repeatedly to advance a paused picture one frame at a time.

㉑ **AUDIO**
– Selects an audio language (DVD, VCD) or an audio channel.
– TUNER: toggles bewteen stereo, mono and SAP (refer to your TV manual for available sound modes).

㉒ **ZOOM**
– Enlarges a picture on the TV screen.

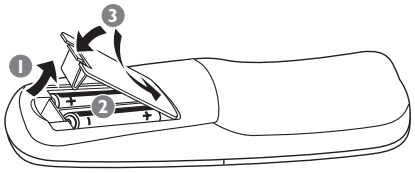
㉓ **T/C** (Title/Chapter)
– Enters/exits the T/C menu.

㉔ **CLEAR**
– Clears a track/chapter/file in the program menu.
– Clears a timer entry.

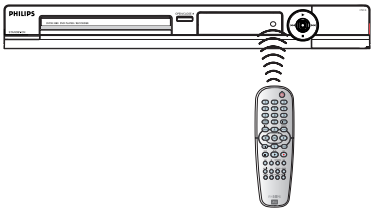


Remote Control (continued)

Using the remote control

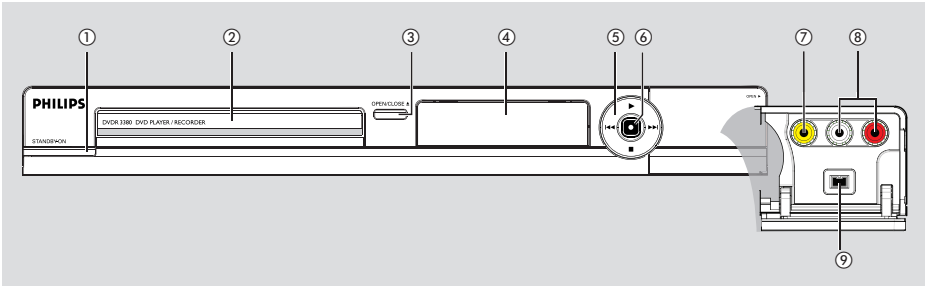


1. Open the battery compartment.
2. Insert two batteries of type R06 or AA, following the indications (+ −) inside the compartment.
3. Close the cover.
4. Aim the remote control directly at the remote sensor (IR) on the front panel.



5. Select the source you want to control by pressing the **REC SOURCE** button on the remote control.
6. Select the desired function (for example ⏮, ⏭).

CAUTION!
– Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
– Do not mix batteries (old and new or carbon and alkaline, etc).
– Batteries contain chemical substances, so they should be disposed of properly.



① **STANDBY-ON**
– Turns on the recorder or switch to standby mode.

② **Disc tray**

③ **OPEN/CLOSE ▲**
– Opens/closes the disc tray.

④ **System display panel**
– Shows information about the current status of the recorder.

⑤ **I◀◀ (PREV) / ▶▶I (NEXT)**
– Go to the previous/next chapter or track. Press and hold to make a forward/ reverse search.

▶ (PLAY)
– Plays a disc.

■ (STOP)
– Stops playback/recording.

⑥ ● (RECORD)
– Starts recording the current TV channel or the current video input source.
– Press repeatedly to set up a One Touch Recording at 30, 60 or 90 minutes interval.

Jacks behind the flap

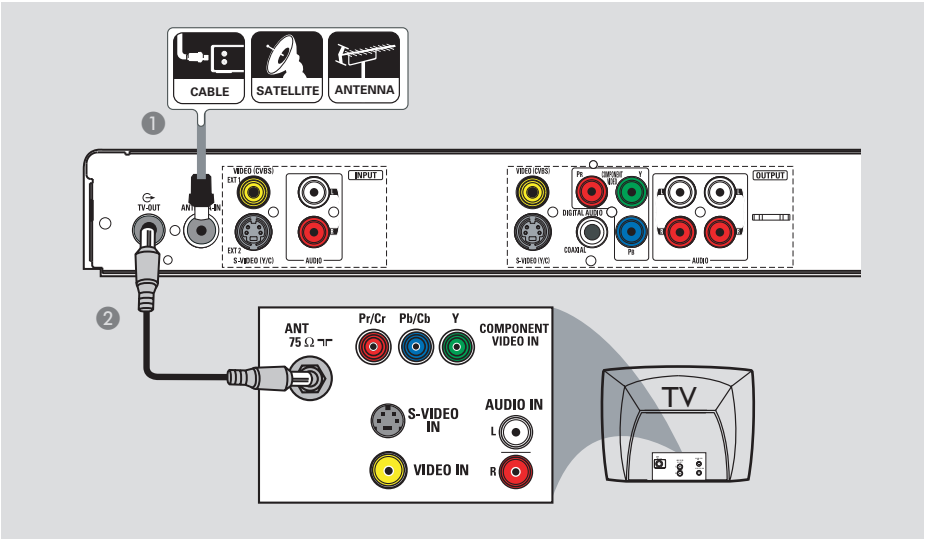
Flip down the door as indicated by the **OPEN ▶** label at the right hand corner.

⑦ **VIDEO**
– Video input for camcorders or video recorders.
Press **REC SOURCE** on the remote control to select 'CAM1' in order to view the input source.

⑧ **L/R AUDIO**
– Audio input for camcorders or video recorders.

⑨ **DV IN**
– Input for digital camcorders or other suitable devices using this connector.
Press **REC SOURCE** on the remote control to select 'DV' in order to view the input source.

Step 1: Basic Recorder Connections



Connecting the antenna cables

These connections enable you to watch and record TV programs using the recorder. If the antenna signal is connected via a VCR, Cable Box or Satellite Receiver, ensure that these devices are turned on in order to watch or record the cable programs.

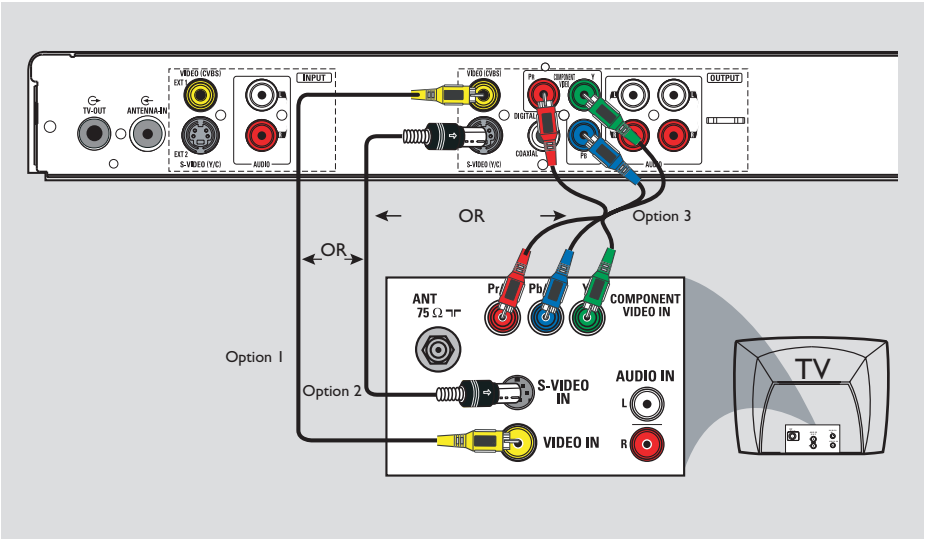
- **If you want to connect to a VCR and/or Cable Box/Satellite Receiver**, see the chapter "Step 2 : Optional Connections" for the complete connections to your TV.

1. Connect the existing Antenna/Cable TV signal (or from the Cable Box/Satellite Receiver {RF OUT or TO TV}) to the **ANTENNA-IN** jack on the recorder.
2. Use the supplied RF coaxial cable to connect **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN).

Helpful Hint:
– Depending on how you have currently connected your TV channel (directly from an off-air antenna or Cable box or VCR), you will have to disconnect some of the cables before you make the above connection.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 1: Basic Recorder Connections (continued)



Connecting the video cables

This connection enables you to view the disc playback from the recorder. You only need to choose **one** of the options below to make your video connection.

Option 1: Using Video (CVBS) jack

- Use the supplied audio/video cable (yellow plug) to connect the **VIDEO (CVBS)-OUTPUT** jack on the recorder to the video input jack (or labeled as A/V In, Video In or Composite) on the TV.

Option 2: Using an S-Video cable

- Use an S-video cable (not supplied) to connect the **S-VIDEO (Y/C) - OUTPUT** jack on the recorder to the S-Video input jack (or labeled as Y/C or S-VHS) on the TV.

Option 3: Using a Component (Y Pb Pr) cable

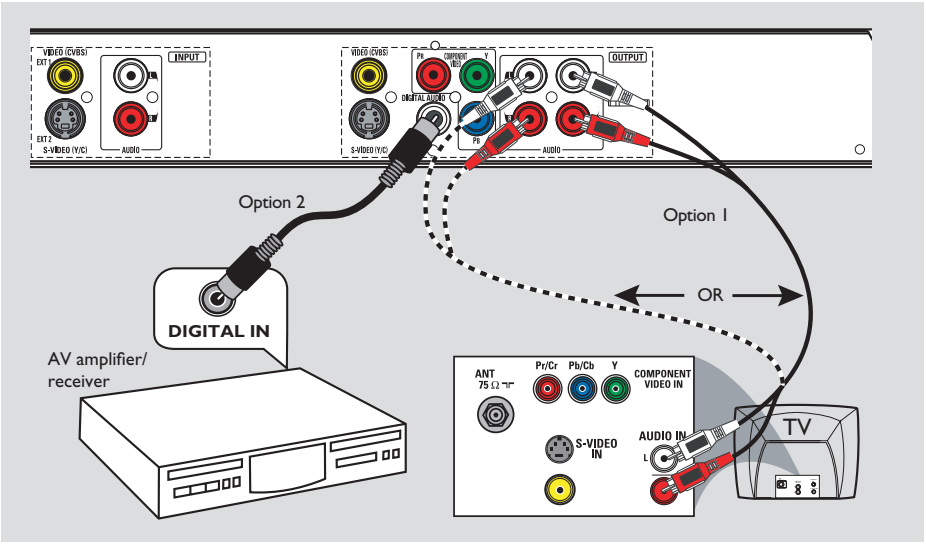
1. Use the component video cable (red/blue/green - not supplied) to connect the **Y P_B P_R -OUTPUT** jacks on the recorder to the corresponding component video input jacks (or labeled as Y Pb/Cb Pr/Cr or YUV) on the TV.
2. If your TV accepts Progressive Scan signal, see the chapter "DVD System Menu Options – GENERAL Settings" for detailed Progressive Scan set-up.

IMPORTANT!
The progressive scan video quality is only available through a Y P_B P_R connection and a progressive TV is required. It is strongly advised to complete the recorder installation first, before enabling the progressive scan feature.

Note: Audio connection is required in order to hear the sound, see next section "Connecting the audio cables".

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 1: Basic Recorder Connections (continued)



Connecting the audio cables

This connection enables you to listen to the sound.

Option 1: Using an audio cable

You can connect the recorder to a two channel stereo system or receiver in order to enjoy the stereo sound system.

- Use an audio cable (red/white ends) to connect the **AUDIO L/R OUTPUT** jacks to one of the following devices with the same input jacks.
  – a stereo system (for example, TV or mini system).
  – a receiver with two channel analogue stereo.

Option 2: Using a coaxial cable

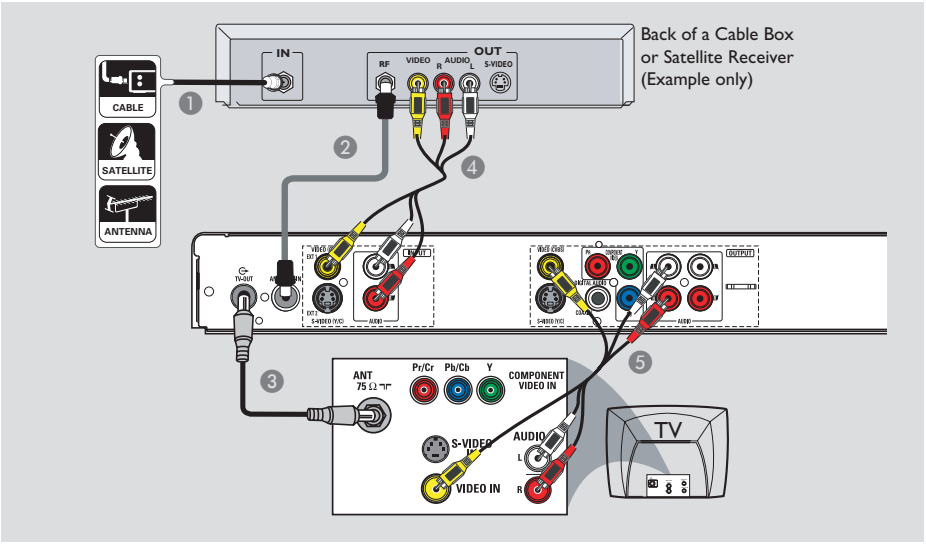
You can connect the recorder to an AV amplifier/receiver with a digital multichannel sound decoder in order to enjoy multichannel surround sound.

- Use a coaxial cable (not supplied). Connect the **DIGITAL AUDIO COAXIAL OUTPUT** jack on the recorder to the digital input of the receiver/amplifier.

  Before you start operating, set the digital audio output settings accordingly (see the chapter "DVD System Menu Options - PLAYBACK settings). If the audio setting does not match your stereo's capabilities, the stereo may produce a strong, distorted sound or no sound at all.

  Helpful Hint:
  – Do not connect your TV's audio output jacks to the AUDIO-L/-R INPUT jacks on this recorder, this may cause unwanted noise.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



Connecting to a Cable Box or Satellite Receiver

Option 1

If your Cable Box/Satellite Receiver has only an antenna output jack (RF OUT or TO TV),

see the section "Step 1: Basic Recorder Connections – Connecting the antenna cables" for the complete connections to your TV.

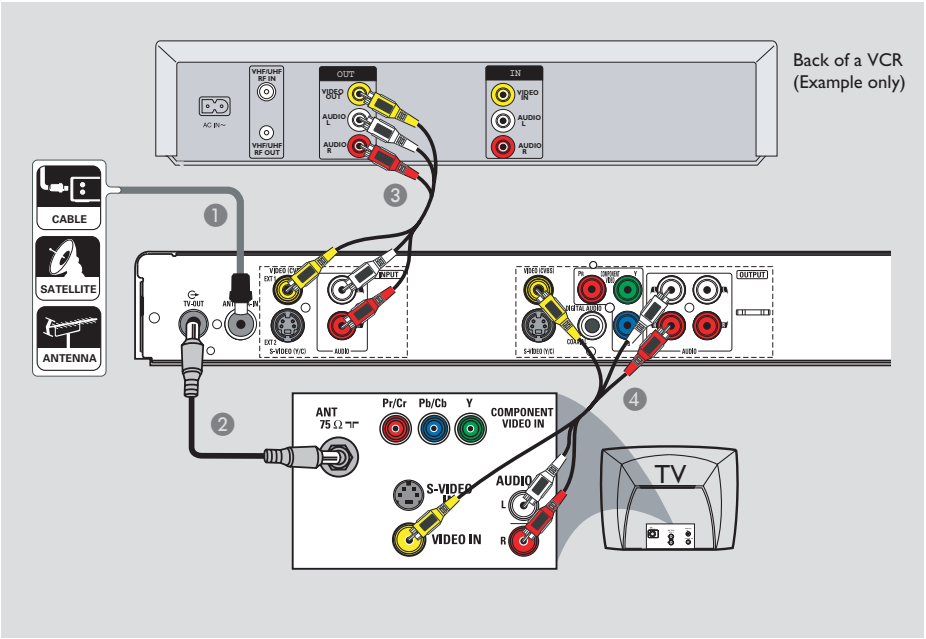
Option 2 (see the above illustration)

If your Cable Box/Satellite Receiver has video/audio output jacks,

1. Keep the existing antenna connection from the Antenna/Cable TV to the Cable Box/Satellite Receiver.
2. Use the supplied RF coaxial cable to connect the **ANTENNA-IN** jack on the recorder to the RF OUT jack on the Cable Box/Satellite Receiver.
3. Use a RF coaxial cable to connect the **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN).
4. Use the audio/video cables to connect the **VIDEO/AUDIO INPUT** on the recorder to the matching VIDEO/AUDIO output jacks on the Cable Box/Satellite Receiver.
5. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** on the recorder to the matching VIDEO/AUDIO input jacks on the TV.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)



Connecting to a VCR or other similar device

This connection enables you to record from video tape to a DVD±R/±RW and allows the VCR to be used for playback if the recorder is turned off.

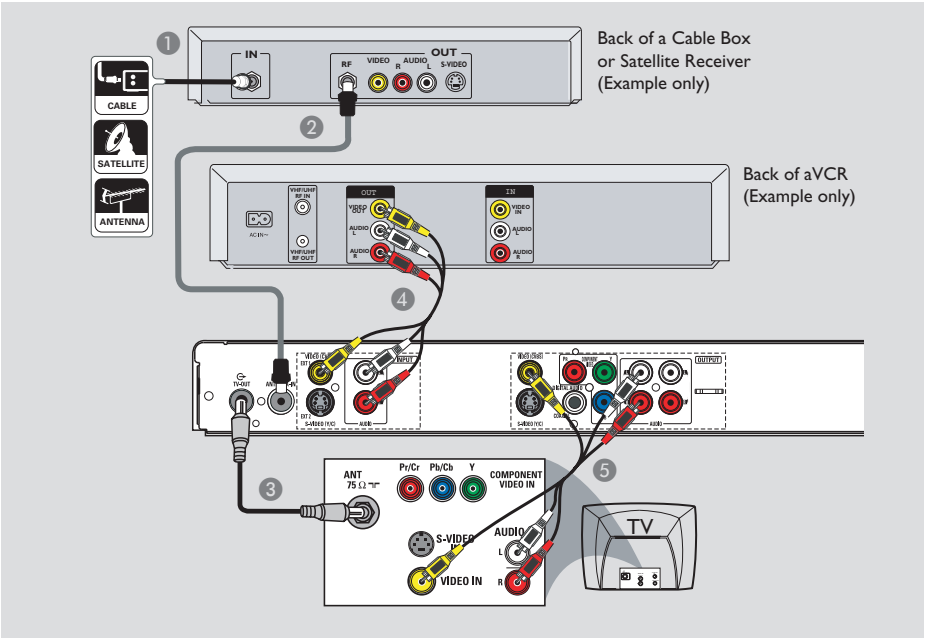
IMPORTANT!
Your new recorder can replace the VCR for all your recording needs. Just unplug all the connections to your VCR.

1. Connect the Antenna/Cable TV signal to the **ANTENNA-IN** jack on the recorder.
2. Use a RF coaxial cable to connect the **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN).
3. Use the audio/video cables to connect the **VIDEO /AUDIO INPUT** (red/white/yellow) on the recorder to the matching VIDEO/AUDIO output jacks on the VCR.
4. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** (red/white/yellow) on the recorder to the matching VIDEO/AUDIO input jacks on the TV.

Helpful Hints:
– Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
– Connect the recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into the recorder.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)



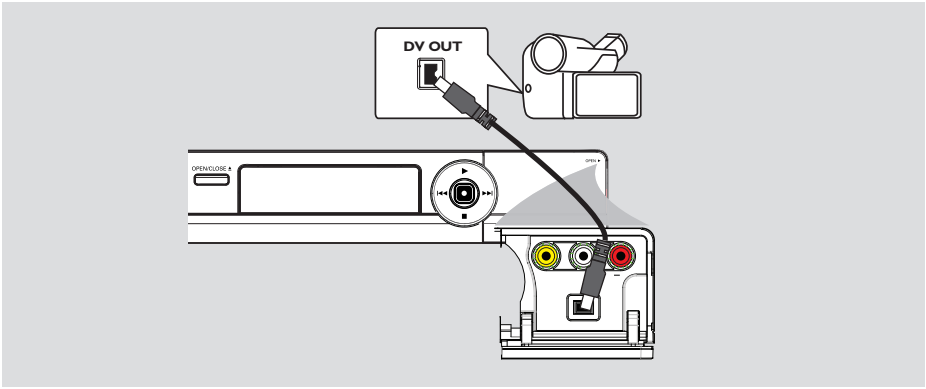
Connecting to a VCR and Cable Box/Satellite Receiver

1. Connect the Antenna/Cable TV signal to the antenna input (RF IN) jack on the Cable Box/Satellite Receiver.
2. Use the supplied RF coaxial cable to connect the antenna output (RF OUT) jack on the Cable Box/Satellite Receiver to the **ANTENNA-IN** jack on the recorder.
3. Use another RF coaxial cable (not supplied) to connect the **TV-OUT** jack on the recorder to the antenna input jack on the TV.
4. Use the audio/video cables to connect the **VIDEO/AUDIO INPUT** (red/white/yellow) on the DVD recorder to the matching VIDEO/AUDIO output jacks on the VCR.
5. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** (red/white/yellow) on the DVD recorder to the matching VIDEO/AUDIO input jacks on the TV.

Helpful Hints:
– You may use the S-VIDEO (Y/C) jack instead of VIDEO (CVBS) jack if the connected device has the same S-VIDEO input/output jack. This video connection provides better picture quality.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)



Connecting a camcorder to the front jacks

You can use the front jacks to copy camcorder recordings. These jacks are located behind the flap on the right and provides convenient connections for a camcorder.

Option 1: Using the DV IN jack

Use this connection if you have a Digital Video or Digital 8 camcorder. The DV jack conforms to the i.LINK standard.

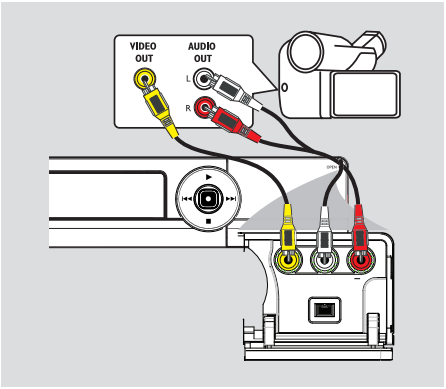
- Use an i.LINK 4-pin cable (not supplied) to connect the **DV IN** jack on the recorder to the appropriate DV OUT jack on the camcorder.

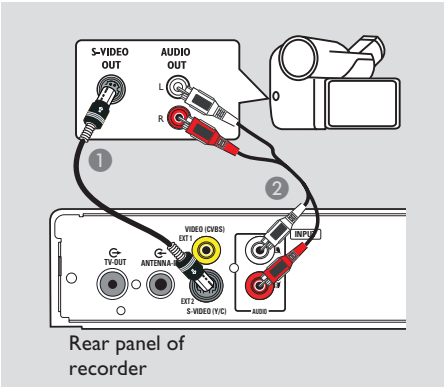
  Before you start operating, press **REC SOURCE** on the remote control repeatedly to select 'DV' as the input channel. See the chapter "Recording" for details.

Helpful Hints:
– The DV IN jack does not support a connection to a Personal Computer.
– It is not possible to record from the recorder to your camcorder via the DV IN jack on your recorder.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)





Rear panel of recorder

Option 2: Using the VIDEO In jack

Use the VIDEO connection if your camcorder has only a single video output (Composite Video, CVBS).

1. Connect the **VIDEO(CAM1)** jack on the front panel of the recorder to the corresponding Video output jack on the camcorder.
2. Use an audio cable (red/white ends) to connect the **AUDIO L/R** jacks on the front panel of the recorder to the audio output jacks on the camcorder.

   Before you start operating, press **REC SOURCE** on the remote control repeatedly to select 'CAM1' as the input channel, depending on your connections. See the chapter "Recording" for details.

Option 3: Using the S-VIDEO In jack

Use the S-VIDEO connection if you have a Hi8 or S-VHS(C) camcorder. It provides good picture quality.

1. Use an S-Video cable (not supplied.) Connect the **S-VIDEO (Y/C) EXT2** jack on the rear panel of the recorder to the corresponding S-VHS output jack on the camcorder.
2. Use an audio cable (red/white plugs) to connect the **AUDIO L/R** jacks on the recorder to the audio output jacks on the camcorder.

   Before you start operating, press **REC SOURCE** on the remote control repeatedly to select 'CAM1' as the input channel, depending on your connections. For details, see "Recording – RECORD settings".

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 3: Installation and Setup

Before you start...
When you complete the connections and switch on the recorder for the first time, it is advisable that you make several basic settings.

Please see the following pages on using the system menu features to program TV channels, menu language and system clock settings. This will optimize the performance of this recorder.

Finding the correct viewing channel

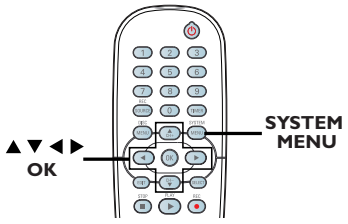
1. Press **STANDBY-ON** on the recorder to switch it on.
2. Switch on the TV set and set it to the correct video-in channel. You should see the blue DVD background screen.
   ➔ You may go to Channel 1 on your TV, then press the Channel Down button on your TV's remote control until you see the Video In channel.
   ➔ You may press ⊡ button repeatedly on your TV's remote control.
   ➔ Usually this channel is between the lowest and highest channels and may be called FRONT, A/V IN, VIDEO. See your TV manual for more details.

Setting the OSD language

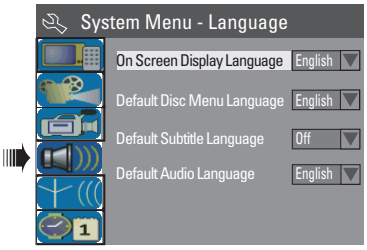
Select the menu language for this recorder's on-screen display. The language options are different depending on your country or region. It may not correspond to the illustrations shown in the user manual.

The menu language (on-screen display) for the system will remain as you set it.

Language settings can only be changed when there is no disc in the disc tray.



1. Press **SYSTEM-MENU**.
   ➔ The system menu appears.
2. Use ▲▼ keys to highlight { **System Menu - Language** } and press ▶ to access the menu.



3. Use ▲▼ keys to highlight { **On Screen Display Language** } and press **OK** to access its options.
4. Use ▲▼ keys to highlight the desired language and press **OK** to confirm.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SYSTEM-MENU** to exit the menu.

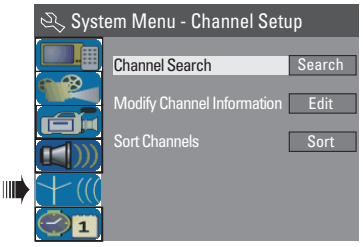
Setting your TV channel programs

Before the recorder can start recording the TV channel programs, you need to search for the available TV channels and store them in the recorder.

Note: Make sure you have successfully made all the required connections to the recorder, the TV and Satellite Receiver/ Cable Box (if any) and switched them on.

Tuner settings can only be changed when there is no disc in the disc tray.

1. Press **SYSTEM-MENU** on the remote control.
   ➔ The system menu appears on the TV.
2. Use ▲▼ keys to highlight { **System Menu - Channel Setup** } and press ▶.



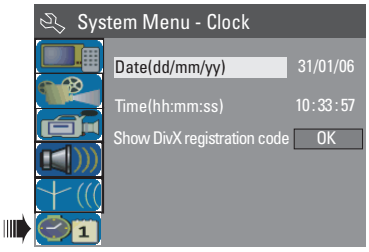
3. Use ▲▼ keys to highlight { **Channel Search** } and press **OK**.
   ➔ The automatic TV channel search starts. This process may take several minutes. Once complete, the total number of channels found appears on the TV.

To modify or sort the TV channels, see the chapter "DVD System Menu Options – CHANNEL SETUP settings."

Setting the date & time

If the recorder has not set the time and date correctly, set the clock manually by following the steps below.

1. Press **SYSTEM-MENU**.
   ➔ The system menu appears.
2. Use ▲▼ keys to select { **System Menu - Clock** } and press ▶ to confirm.



3. Use ▲▼ keys to highlight { **Date (dd/mm/yy)** } and press **OK**.
4. Use ▲▼ keys to change the numbers and use ◀ ▶ keys to select different entry fields. Press **OK** to confirm.
   - Alternatively, you can key in the numbers using the **numeric keypad 0-9** on the remote control.
5. To confirm all changes, press **OK**.
6. Move to { **Time (hh:mm:ss)** } and repeat step 4~5.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SYSTEM-MENU** to exit the menu.

Recording

Discs for recording

Several different formats of DVD recordable discs can be used with this recorder:

DVD±RW (DVD Rewritable)

– Discs that are rewritable can be used for multiple recordings once the existing data has been erased.

DVD±R (DVD Recordable)

– Discs can only be used for a single recording. Each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.

– Editing can be made on any DVD±R discs as long as they have not been finalized. It is also possible to create additional chapter markers.

– To play a DVD±R on another DVD player, it must be finalized (See the chapter "Editing/ Finalizing Recording – Playing your recordings (DVD±R) on other DVD players"). After this is done, no more data can be added to the disc.

Supported disc types and media speeds

Disc	Media speeds
DVD+R	1x - 16x
DVD+RW	2.4 x - 4x
DVD-R	1x - 16x
DVD-RW	2x - 4x

IMPORTANT!

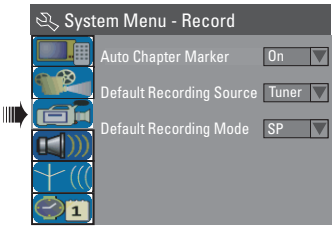
Unrecordable pictures

Television programs, films, video tapes, discs, and other materials may be copy-protected and therefore cannot be recorded on this recorder.

Recording settings

The default recording settings allow you to set the auto chapter markers, preferred recording input source and recording mode. Any changes made using the remote control will only apply to the current recording settings. The default recording settings will remain unchanged for the next recording.

1. Press **SYSTEM-MENU** on the remote control.
   ➔ The system menu appears on the TV.
2. Use ▲▼ keys to select { **System Menu - Record** } and press ▶ to confirm.



3. Use ▲▼ keys to select the setting you wish to change and press **OK** to confirm.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **SYSTEM-MENU**.

TIPS: Press ◀ to go back to previous menu item.
Press **SYSTEM MENU** to exit the menu item.

English

RECORD settings (underlined options are the factory default settings)

Auto Chapter Marker

Automatically insert chapter markers within a title during recording. This helps you to access specific points on the recorded disc as you would choose a chapter on other DVDs.

This allows you access to specific points on the recording.

1) Use ▲▼ keys to select one of the options:

{ **Off** } – Disable this feature.

{ **On** } – Chapter markers will automatically be inserted within the title during recording at every 5 minutes interval.

2) Press **OK** to confirm your selection.

Default Recording Source

Define your preferred source of recording.

1) Use ▲▼ keys to select one of the options:

{ **Tuner** } – Input source from TV programs.

{ **CAM1** } – Input source from the device connected to the VIDEO and AUDIO L/R jacks on the front panel.

{ **DV** } – Input source from the device connected to DV IN jack on the front panel.

{ **EXT 1** } – Input source from the device connected to the VIDEO (CVBS) EXT1 jack on the back panel.

{ **EXT 2** } – Input source from the device connected to the S-VIDEO (Y/C) EXT2 jack on the back panel.

2) Press **OK** to confirm your selection.

Default Recording Mode

Define your preferred mode of recording.

This function can also be accessed via the **REC MODE** on the remote control.

1) Use ▲▼ keys to select one of the options:

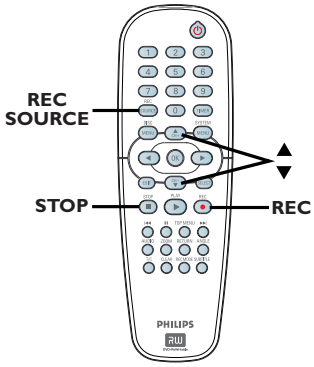
Record Mode	Picture Quality	Maximum Recording Time per Disc
HQ	High quality	1 hour
SP	DVD quality-Standard Play	2 hours
EP	VHS quality-Extended Play	4 hours
SLP	VHS quality-Super Long Play	6 hours

2) Press **OK** to confirm your selection.

Recording (continued)

Manual recording

Use this feature to start recording immediately (e.g., to record a TV show already in progress).



1. Switch on the TV set. Select the correct Video In channel on the TV.
2. Insert a DVD±R/±RW into the recorder.
3. Press **REC SOURCE** on the remote control to select { **Tuner** }, then use ▲▼ keys to select the TV channel you wish to record.

- **To record from an external device**, press **REC SOURCE** repeatedly to select the correct input channel that matches the jack which is connected to the recorder.

  { **CAM1** }
  Input source from the device connected to the CAM1 and AUDIO L/R jacks on the front panel.

  { **DV** }
  Input source from the device connected to DV IN jack on the front panel.

  { **EXT 1** }
  Input source from the device connected to the VIDEO (CVBS) EXT1 jack on the back panel.

  { **EXT 2** }
  Input source from the device connected to the S-VIDEO (Y/C) EXT2 jack on the back panel.

4. Press **REC** ● to start recording.
   ➔ The recording will automatically start after the last recording on the DVD±R/±RW.
5. To stop the recording, press **STOP** ■.

Pausing a recording

1. During a recording, press **PAUSE** ❚❚.
   ➔ You can use this function to avoid recording commercials.
2. To resume recording, press **REC** ●.

One Touch Recording - automatic turn-off

1. Follow the steps 1~3 of "Manual Recording" in the previous section.
2. Press **REC** ● repeatedly to toggle between OTR 30, 60 or 90- minutes recording options.
   ➔ The recorder will stop recording at the designated end time and switch off automatically.

- To interrupt the recording, press **STOP** ■.

TIPS: Press ◀ to go back to previous menu item.
Press **SYSTEM MENU** to exit the menu item.

English

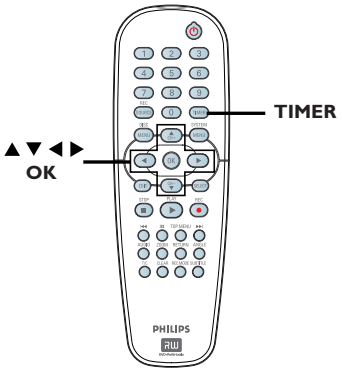
About timer recording

Use 'Timer Recording' to automatically start and stop a recording at a later date/ time. The recorder will tune to the right program channel and start recording at the specified time.

With this recorder, you can pre-program up to **20 recordings**.

To make a timer recording, your recorder needs to know:

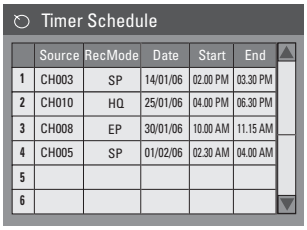
– The date you want to make the recording.
– The recording input source.
– The start and stop time of the recording.
– The recording mode, see the section "RECORD settings – Default Recording Mode" in this chapter.



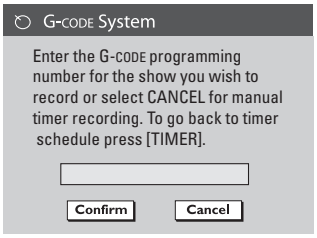
Timer recording (manually)

1 Switch on the TV set. Select the correct Video In channel at the TV.

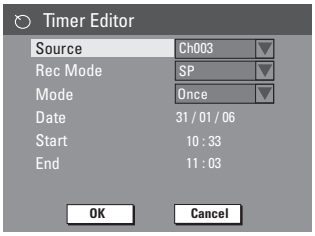
2 Press **TIMER** on the remote control.
➔ The timer schedule appears.



3 Press **OK** on the remote control.
➔ The G-CODE® System menu appears.


G-CODE System
Enter the G-CODE programming number for the show you wish to record or select CANCEL for manual timer recording. To go back to timer schedule press [TIMER].
Confirm
Cancel

4 Select CANCEL in the menu and press **OK**.
➔ The timer editor menu appears.



TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See "Playing your recordings (DVD±R) on other DVD players".

Recording (continued)

5 Use ▲▼ keys to select an entry in the menu and press ▶ to enter its options.

{ **Source** }
– Use ▲▼ keys to select the recording input source.

{ **Rec Mode** }
– Use ▲▼ keys to select your option. See the chapter "Recording – RECORD settings - Default Recording mode".

{ **Mode** }
– Use ▲▼ keys to select { **Once** }, { **Daily** }, { **Weekly** }, { **Mon-Fri** } (Monday to Friday,) { **Mon-Sat** } (Monday to Saturday) or { **Weekend** } (Saturday and Sunday) recordings.

{ **Date** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the date for recording.

{ **Start** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the start time of recording.

{ **End** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the end time of recording.

6 Select [OK] in the menu and press **OK**.
➔ The system will store the timer entry and return to the timer schedule list.

- To cancel the above timer setting, select [CANCEL] in the menu and press **OK**.

7 Press **TIMER** to exit the menu.

8 Insert a DVD±R/±RW into the DVD recorder.

9 Press **STANDBY-ON** to switch off the recorder to standby mode.
➔ If the DVD recorder is not in standby mode, a warning message will appear three minutes before the recording starts.
➔ The **'TIMER'** icon will light up on the display panel if a timer recording is set.

Helpful Hint:
– Set the timer recording one minute ahead of the program's start time. This helps ensure the entire program is recorded as the disc requires about 30 seconds to prepare for recording.

Setting a timer recording from an external Cable Box/ Satellite Receiver

If you have a Satellite Receiver/Cable Box connected to this DVD recorder via the S-VIDEO (Y/C) or VIDEO (CVBS), (see "Step 2: Optional Connections"), follow the steps described below to program the recordings.

1 Select the channel you want to record at the Satellite Receiver/Cable Box.

2 Program the recording with the required information. Follow the steps 1~4 of "Timer Recording (manually)" on the previous page.

{ **Source** }
– Use ▲▼ keys to select { **EXT 1** } or { **EXT2** } as the input channel and press **OK** to confirm.

3 Leave the Satellite Receiver/Cable Box switched on for the recording.

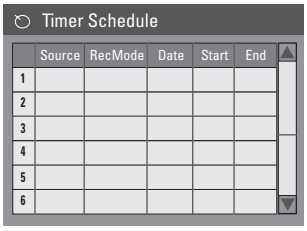
TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See "Playing your recordings (DVD±R) on other DVD players".

Timer recording (G-CODE® System)

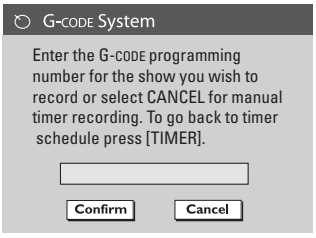
This is a simple programming system for recorders. To use it, enter the G-CODE® programming number associated with your television program. You can find this number in your TV listings magazine.

All the information needed by the recorder for programming is contained in the programming number.

1. Switch on the TV set. Select the correct Video In channel on the TV.
2. Press **TIMER** on the remote control.
   ➔ The timer schedule appears.



3. Press **OK** to confirm.
   Alternatively, press ▼ key to go to the next available empty slot and press **OK**.
   ➔ The G-CODE® System menu appears.


G-CODE System
Enter the G-CODE programming number for the show you wish to record or select CANCEL for manual timer recording. To go back to timer schedule press [TIMER].
Confirm
Cancel

4. Use the **numeric keypad 0-9** to enter the G-CODE® programming number for the show you wish to record.
   (e.g. : 5-312-4 or 5,312 4, key in '53124').

- To clear the G-CODE® programming number, press **CLEAR** on the remote control.
- To cancel the G-CODE® programming, use ▲▼ keys to select CANCEL in the menu and press **OK**.

5. To confirm your entry, select CONFIRM in the menu and press **OK**.
   ➔ The system will store the timer entry and return to the timer editor menu.

- If the channel number of the TV channel has not been assigned to the programming number, you will have to manually key in the channel number that is assigned to the G-CODE® code. Follow the instructions on the TV.

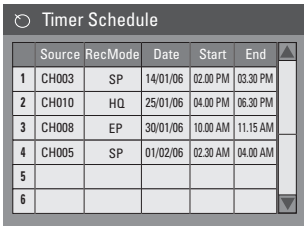
6. Press **TIMER** to exit the menu.
7. Insert a DVD±R/±RW into the recorder.
8. Press **STANDBY-ON** to switch off the recorder to standby mode.
   ➔ If the recorder is not in standby mode, a warning message will appear three minutes before the recording starts.
   ➔ The **'TIMER'** icon will light up on the display panel if a timer recording is set.

TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See "Playing your recordings (DVD±R) on other DVD players".

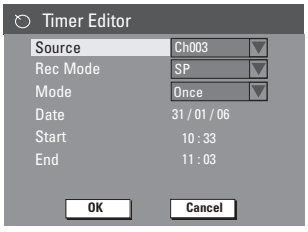
Recording (continued)

Changing/ Deleting a timer recording

1. Switch on the TV set. Select the correct Video In channel at the TV.
2. Press **TIMER** on the remote control.
   ➔ The timer schedule appears.



3. Use ▲▼ keys to select a timer program which you want to change/ delete.
4. **To delete the timer entry**, press **CLEAR** on the remote control.
5. **To change the timer schedule**, press **OK** to enter the timer editor menu of the selected timer program.



6. Select the entry field and make the necessary changes.
7. Once complete, select OK in the menu and press **OK** to save the changes.
8. Press **TIMER** to exit the menu.

Watching another TV program during recording

You can watch another TV channel while recording is in progress by using the TV's remote control to change the TV channels.

Helpful Hint:
– Remember to switch the TV back to its video input channel if you want to watch the TV channel through the recorder or playback the recorded disc.

TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See "Playing your recordings (DVD±R) on other DVD players".

Playable discs

Using this recorder, you can play and record on the following discs:

Recording and Playback

DVD±RW (DVD Rewritable); can be recorded on over and over again.

DVD±R (DVD Recordable); can be recorded only once.

Playback only:

DVD Video (Digital Versatile Disc)

CD-RW (CD-Rewritable) Audio/ MP3/ JPEG contents

CD-R (CD-Recordable) Audio/ MP3/ JPEG contents

Audio CD (Compact Disc Digital Audio)

MP3-Disc

Video CD (Formats 1.0, 1.1, 2.0)

Super Video CD

DivX Disc (DivX 3.11, 4.x, 5.x, 6)

IMPORTANT!

– If the inhibit icon (Error) appears on the TV screen when a button is pressed, it means the function is not available on the current disc or at the current time.

– DVD discs and players are designed with regional restrictions. Before playing a disc, make sure the disc is for the same region as your player.

– Do not push on the disc tray or put any objects other than discs on the disc tray. It may cause the disc player to malfunction.

Inserting a disc

1. Press **STANDBY-ON** to switch on the recorder.
2. Press **OPEN/CLOSE ⏏**.
   ➔ The disc tray opens.
3. Carefully place the disc into the tray with the label facing up, then press **OPEN/CLOSE ⏏**.
   ➔ Make sure the disc label is facing up. For double-sided discs, load the side as indicated on the label.
4. Switch on the TV set. Select the correct Video In channel at the TV (See the chapter "Step 3: Installation and Setup – Finding the correct viewing channel").
5. Playback will start automatically or a dialogue will appear on the TV (see next page).

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playback (continued)

Starting disc playback

- Playback will begin automatically. If the disc has its own menu this will be loaded, otherwise the recorder will launch an index screen.
- If the pin code entry dialogue appears on the TV, this means that the parental control was activated for the inserted disc (See the chapter "DVD System Menu Options – PLAYBACK settings").
  ➔ Use the **numeric keypad 0-9** on the remote control to enter your pin code (password).
- For more playback features, see the chapter "Additional Playback Features".

Playing a DVD video disc

1 Insert a DVD disc.

If the disc menu appears on the TV

- Use **numeric keypad 0-9** to input your selection or use ◀ ▶▲▼ keys to select a play option and press **OK** to start playback.

To select the previous or next chapter/title marker

- Press ⏮/⏭ to go to the previous/ next chapter/track.

2 To stop playback, press **STOP** ■.

Playing a (Super) Video CD

(Super) Video CDs may feature the 'PBC' (Play Back Control). This allows you to play the video CDs interactively by following the menu on the display.

1 Insert a (Super) Video CD.

If the 'PBC' is on, the disc index menu will appear on the TV

2 Use **numeric keypad 0-9** to input your selection or to select a play option.

- Press **RETURN** on the remote control to return to the previous menu.
- To turn on/off the Playback Control mode, press **T/C** on the remote control during playback to access the T/C menu. Then use ▲▼ keys to select { **PBC On** } or { **PBC Off** }.

3 To stop playback, press **STOP** ■.

Playing an audio CD

1 Insert an audio CD.
➔ Playback starts automatically.
➔ The track number and elapsed playing time appear on the display panel.

2 To stop playback, press **STOP** ■.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

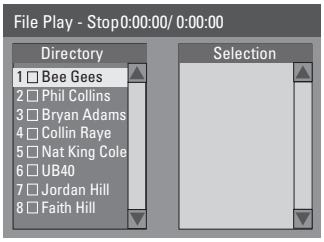
Playing a DVD±R/±RW disc

1. Insert a DVD±R/±RW disc.
   ➔ The Index Picture screen appears.
2. Use ▲▼ keys to select a title and press **PLAY** ▶ to start playback.
3. To stop playback, press **STOP** ■.

Helpful Hint:
– If the message 'BLANK' appears on the display panel, this means that there are no recordings on this disc..

Playing an MP3 disc

1. Insert an MP3 CD.
   ➔ The disc content menu appears.



Note: It may require a longer time for the recorder to display the disc content menu on the TV due to the large number of songs/pictures compiled into one disc.

2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.
3. Use ▲▼ keys to select the track/file to playback.

- To move up to the previous level, press **RETURN**.

4. To create a playlist, highlight the track/file and press **SELECT**.
   ➔ The selected tracks/files will appear on the right screen.
   ➔ Use ◀▶ keys to toggle between the left and right screen.
   ➔ To remove the track/file from the selected playlist, press CLEAR.
5. To start playback, move the cursor to the right selection screen, press **PLAY** ▶ .
6. During playback, you can press ⏮ / ⏭ to select the next/previous track.
7. To stop playback, press **STOP** ■.

Helpful Hint:
– Only the first session of a multi-session CD will playback.

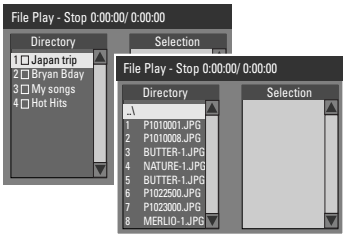
TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playback (continued)

Playing a picture disc (or musical slide show)

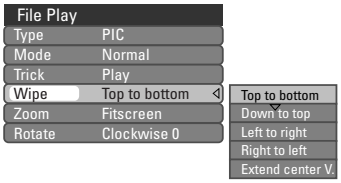
You can display JPEG pictures in the selected roll automatically one after the other.

1. Insert a JPEG picture disc (CD, CD-R/RW, DVD±R/±RW).
   ➔ The disc content menu appears.
2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.
3. To create a playlist, highlight the track/file and press **SELECT**.
   ➔ The selected tracks/files will appear on the right screen.
   ➔ To remove the track/file from the playlist, press **CLEAR**.
   ➔ You can select to playback from the original disc content or from the playlist. Use ◀▶ keys to move to the correct screen before selecting the track/file for playback.



If the disc contains MP3 music and JPEG picture files, you can start a musical slide show playback,

- Select an MP3 file and press **OK** to start playback, then select a picture file in the menu and press **OK** to start the musical slide show playback.



5. During playback, press **T/C** once to show the disc content menu. Press **T/C** again to access various settings for the slide show playback.
   ➔ The selected animation settings will appear in the top left corner of the TV screen.
6. To stop playback, press **STOP** ■.

Playable JPEG picture disc

This recorder can read JPEG pictures stored on a CD-ROM, Picture CD, or DVD.

File format:

– The file extension has to be '.JPG,' '.JPE' or '.JPEG.'

– Only DCF-standard still pictures or JPEG pictures (eg. TIFF) can be displayed.

– It cannot playback moving pictures, Motion JPEG, JPEG, pictures in non-JPEG formats or pictures associated with sound.

– The recorder may require a longer time to display the disc content on the TV due to the large number of songs/ pictures compiled onto one disc.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playing a DivX® disc

This DVD system supports the playback of DivX® movies which you have copied from your computer onto a CD-R/RW, DVD±R/±RW.

1. Insert a DivX® disc.
   ➔ The disc content menu appears.

- If the DivX® movie contains external subtitles, you have to first select the subtitle file from the file list.

2. Press **PLAY ▶** to start playback.

- During playback, you can press **T/C** to display the disc content menu.

Helpful Hints:
– Subtitle files with the following filename extensions (.srt, .smi, .sub, .sami) are supported.
– It is normal to experience an occasional pixelation during DivX® playback due to poor clarity of digital contents during internet downloading

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Additional Playback Features

Changing to another chapter/ track

When a disc contains more than one chapter or track, you can change to a different chapter or track as follows.

During playback,

- Press ▶▶I to go to the next chapter/ track.
- Press I◀◀ to return to the start of the previous chapter/track.
  OR
- Use the **numeric keypad 0-9** to input the title/chapter/track number.
  OR
- Press **T/C** to enter the T/C menu and use ▲▼ keys to select { **Title** } or { **Chapter** } and use **numeric keypad 0-9** to input the title/chapter/track number.

Pausing playback and step play

1. During playback, press PAUSE ❚❚ to pause playback and display a still picture.
2. Press PAUSE ❚❚ again to move one frame forward.
3. To resume normal playback, press **PLAY** ▶.

Searching forwards/ backwards

You can search forward or backward on a disc at two, four, sixteen or thirty two times the normal playback speed.

1. During playback, press ◀ (reverse) or ▶ (forward) to switch to the search function.
   ➔ The search status bar appears.
   It displays the search speed (FREV x2, FREV x4, FREV x16, FREV x32, FFWD x2, FFWD x4, FFWD x16, FFWD x32)
   ➔ The sound will be muted.
2. Use ◀ ▶ keys to cycle through the search speeds.
3. To resume normal playback, press **PLAY** ▶.

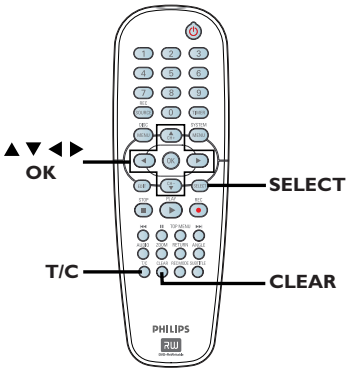
Zooming in

This option allows you to enlarge the picture on the screen and pan through the enlarged picture.

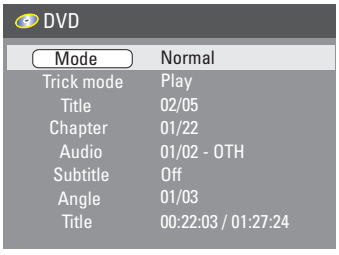
1. Press **ZOOM** repeatedly on your remote control to activate zoom.
2. Use ◀▶▲▼ keys to pan through the zoomed picture.
3. To exit, press **ZOOM** until the picture returns to the normal size.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Using T/C options



1. During playback, press **T/C** on the remote control.
   ➔ The T/C menu appears on the TV.



2. Use ▲▼ keys to select the setting you want to adjust.
   ➔ Instructions and explanation of the options are provided in the following pages.
3. To exit, press **T/C**.

Selecting various repeat/ shuffle functions

You can select various repeat play or random play mode during playback.

1. During disc playback, press **T/C** on the remote control.
   ➔ The T/C menu appears.
2. Use ▲▼ keys to select { **Mode** } and press **OK**.
3. Use ▲▼ keys to select one of the repeat options.

   { **Normal** }
   Select this to cancel the repeat mode and return to normal playback.

   { **Repeat A-B** }
   Select this to repeat the playback of a specific segment within a title/chapter/ track. Press **OK** to mark the start and end of the segment you want to repeat.

   { **Repeat Chapter** }
   Select this to repeat playback of the current chapter (DVD, DVD±R/±RW only).

   { **Repeat Track/Title** }
   Select this to repeat playback of the current track/title.

   { **Repeat Directory** }
   Select this to repeat playback of the current folder/directory (MP3, JPEG, picture disc only).

   { **Repeat Disc** }
   Select this to repeat playback of the entire disc. (MP3, JPEG, SVCD and CDDA discs only).

   { **Shuffle** }
   Select this to randomly playback all the tracks within the disc (MP3 and audio CD only).
4. To cancel repeat playback, press **STOP■** or select { **Normal** } and press **OK**.

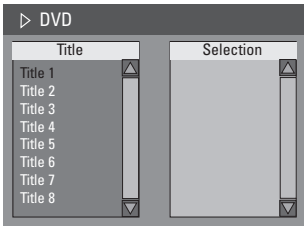
TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Creating a playlist

You can play the contents of the disc in the order you want by programming the tracks to be played.

1. Press **T/C** on the remote control.
   ➔ The T/C menu appears.
2. Select { **Mode** } > { **Program** }.
   ➔ The program menu appears.



3. If the disc is recorded with Titles/Folders/Albums, press **OK** to access the tracks/files/chapters.

- Pressing **OK** at the highlighted track/file/chapter will start playback.
- Use ◀ ▶ keys to toggle between the left and right screen.

To program your favourite track/file/chapter

4. Use ▲▼ keys to select the track/file/chapter to program and press **SELECT** on the remote control.
   ➔ The selected track/file/title will appear at the right screen.
   ➔ The order on the right screen will be the order of program playback.

To remove the programmed item from your selection

5. Press ▶ key to move to the right screen. Select the track/file/chapter and press **CLEAR** on the remote control.

To start program play

6. Press ▶ key to move to the right screen and press **OK**.
   ➔ Playback will start from the selected track/file/chapter according to the programmed sequence.

To exit program play

7. Press **STOP** ■ to exit program play.

Changing the audio soundtrack language

This operation works only on DVDs with multiple soundtrack language or VCDs with multiple audio channels.

- During disc playback, press **AUDIO** repeatedly to toggle through the audio channels on the disc.
  OR,

1. Press **T/C** on the remote control.
   ➔ The T/C menu appears.
2. Use ▲▼ keys to select { **Audio** } and press ▶ to access its options.
3. Use ▲▼ keys to select the audio language and press **OK** to confirm.
   ➔ The languages may be numbered or abbreviated, such as "En" for English.
   ➔ If the language selected is not available on the disc, the disc's default setting for language will be used instead.

Helpful Hint:
– Some DVDs allow soundtrack language changes only via the DVD disc menu. To access the Disc Menu, press DISC-MENU.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Changing subtitle language

This operation works only on DVDs with multiple subtitle languages, you can change the language you want while playing the DVD.

- During disc playback, press **SUBTITLE** repeatedly to toggle through the language options on the disc.
  OR,

1. Press **TC** on the remote control.
   ➔ The T/C menu appears.
2. Use ▲▼ keys to select { **Subtitle** } and press ▶ to enter the menu and find the different available options.
3. Use ▲▼ keys to select the language and press **OK** to confirm.
   ➔ The languages may be numbered or abbreviated, such as "En" for English.
   ➔ If the language selected is not available on the disc, the disc's default setting language will be used instead.

Helpful Hint:
– Some DVDs discs allow subtitle language changes only via the DVD disc menu. To access the disc menu, press DISC-MENU.

Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles.

1. Press **T/C** on the remote control.
   ➔ The T/C menu appears.
2. Use ▲▼ keys to select { **Angle** } and press ▶ to enter its options.
   ➔ The camera angles available for selection appears.
3. Use ▲▼ keys to select the camera angle you want to switch to, then press **OK** to confirm.

Time search

This option allows you to skip to a specific point in the current disc.

1. Press **T/C** on the remote control.
   ➔ The T/C menu appears.
2. Use ▲▼ keys to select { **Title** } and press ▶ to select time search by { **Title** } or { **Chapter** }. To confirm search option, press **OK**.
3. Use the **numeric keypad (0-9)** to enter the time required.
   ➔ Playback skips to the selected time.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Editing/ Finalizing Recording

About disc editing

This recorder offers various disc editing options for various disc types. You can change the disc content and settings of a recorded DVD±R/±RW from the disc editing menu. The edited contents may not be available when you play the disc on an another DVD player.

The displayed options in the disc editing menu differ depending on the type of disc.

{ **Play** }
Start playing from the beginning of the disc.

{ **Rename Disc** }
Change the name of the disc.

{ **Erase Disc** } - DVD±RW only
Erase all the recordings on the disc.

{ **Record New Title** }
Start recording from the last empty title on the disc.

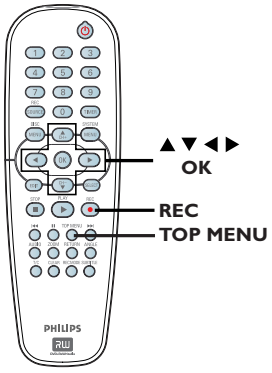
{ **Overwrite Disc** } - DVD±RW only
Start a new recording from the beginning of the disc, all the recorded content will be overwritten.

{ **Make Compatible** } - DVD±RW only
To ensure the edited changes remain when the disc is played back on another DVD player. (eg., hidden chapters to remain hidden).

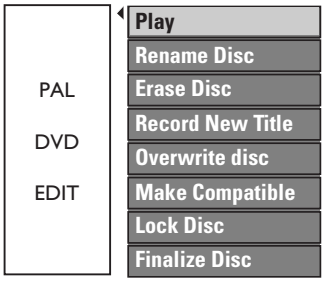
{ **Lock/Unlock Disc** } - DVD±RW only
Lock or unlock a disc to prevent accidental erasure or changes being made.

{ **Finalize Disc** } - DVD±R only
Finalize the disc to enable playback on other DVD players. Further recording and editing to the disc are not allowed. It is not possible to unfinalize the disc.

Accessing disc editing menu



1. Insert a recorded DVD±R/±RW into the recorder.
   ➔ The Index Picture screen appears on the TV.
2. Press **TOP MENU** on the remote control.
   ➔ The disc editing menu appears. The available editing options are different for DVD±R and DVD±RW discs.



3. Use ▲▼ keys to access different options and **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **TOP MENU** to go back to the disc Index Picture screen.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

Editing/ Finalizing Recording (continued)

Rename disc

The original disc name is generated automatically by the recorder. You can change the disc name by following the steps below.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Rename Disc** } and press **OK**.
   ➔ The keyboard screen appears.
2. Use ◀ ▶▲▼ keys to highlight a character on the keyboard and press **OK** to select.
   ➔ The maximum input is up to 9 characters.

- You can use the following keys on the keyboard screen to edit your input:
  - BkSp : to remove the character to the left of the cursor.
  - Delete : to remove the character to the right of the cursor.
  - Space : to create a space between the characters.
  - Caps : to toggle between upper and lowercase characters.
  - Clear : to clear the entry field completely.

3. To confirm your entry, select OK on the keyboard and press **OK**.
   ➔ The info panel is now updated.

- To cancel the changes, select EXIT on the keyboard and press **OK**.

Erase disc (DVD±RW only)

This erases the content of the DVD±RW including those that was not recorded on this recorder. Once the existing content is erased, it can be used again for recording.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Erase Disc** } and press **OK**.
   ➔ A warning message will appear.
2. Select YES in the menu to proceed or NO to abort, then press **OK** to confirm.

Record new title

This function allows you to start a new recording at the remaining empty space on the DVD±R/±RW.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Record New Title** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

Overwrite disc (DVD±RW only)

This function allows you to start a new recording from the beginning of a DVD±RW regardless of the contents of the disc.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Overwrite disc** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

Editing/ Finalizing Recording (continued)

Make compatible (DVD±RW only)

The edited DVD±RW may still display the original titles or hidden scenes when playbacked on other DVD players. This function ensures that the edited changes of the DVD±RW remain when played back on other players.

- Press **TOP MENU**, then use ▲▼ keys to select { **Make Compatible** } and press **OK** to confirm.

Helpful Hint:
– If the option {Compatible} is not available for selection, it means that the disc is already compatible.

Lock/Unlock disc (DVD±RW only)

You can choose to protect the recorded DVD±RW in order to prevent accidental loss of recordings.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Lock Disc** } and press **OK**.
   ➔ The disc is locked for this DVD recorder only.
   ➔ When the disc is locked, the option in the disc editing menu will change to { **Unlock Disc** }.
2. If you want to overwrite or edit on the protected disc, select { **Unlock Disc** }.

Playing your recordings (DVD±R) on other DVD players

It is necessary to finalize a DVD±R disc before you can play it on any other DVD player. Otherwise, the DVD±R will only playback on this recorder.

After a DVD±R disc has been finalized, no further recordings or editing can be made to it. Make sure that you have completed all the recordings and editing before finalizing the disc.

1. Press **TOP MENU**, then use ▲▼ keys to select { **Finalize Disc** } and press **OK**.
   ➔ A warning message will appear.
2. Select YES in the menu and press **OK** to start the process.
   ➔ Finalization will take a few minutes. Do not try to open the disc tray or turn the power off as this may render the disc unusable.
3. Select NO to abort.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

About title editing

You can change the individual title information or delete a title (recording) in a recorded DVD±R/±RW. If a DVD±R has been finalized, it cannot be edited.

The displayed options in the title editing menu differ depending on the type of disc.

{ **Play Title** }
Start playing a recording.

{ **Edit Title** }
Access the video editing menu.

{ **Rename Title** }
Change the name of the recording.

{ **Erase Title** } - DVD±RW only
Delete the title (recording).

{ **Overwrite Title** } - DVD±RW only
Start a new recording, the existing title (recording) will be overwritten.

{ **Overwrite Disc** } - DVD±RW only
Overwrite from the existing selected title onwards to the end of the disc.

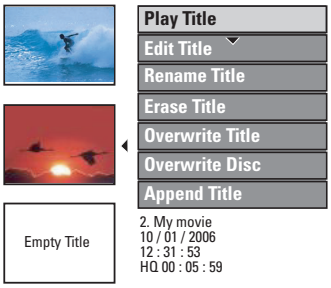
{ **Append Title** }
Insert a new recording to the last existing recording.

Accessing title editing menu

1. Insert a recorded DVD±R/±RW into the recorder.
   ➔ The Index Picture screen appears on the TV.

- During playback, press **DISC MENU** to access the Index Picture screen.

2. Use ▲▼ keys to highlight a title (recording), and press ▶.
   ➔ The title editing menu appears.



3. Use ▲▼ keys to access different options and **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.

4. To exit, press ◀.

Editing video

This feature allows access to the video editing menu. See the chapter "Editing/ Finalizing Recording – About video editing" for more information.

- In title editing menu, use ▲▼ keys to select { **Edit Title** } and press **OK**.
  ➔ The video editing menu appears.
  ➔ The recorder will play the selected title.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

Editing/ Finalizing Recording (continued)

Rename title

The original title name is generated automatically by the recorder. You can give a new name to the title by following the steps below.

1. In title editing menu, use ▲▼ keys to select { **Rename Title** } and press **OK**.
   ➔ The keyboard screen appears.
2. Use ◀ ▶ ▲▼ keys to highlight a character and press **OK** to select.
   ➔ The maximum input is up to 9 characters.

- You can use the following keys on the keyboard screen to edit your input:
  - BkSp : to remove the character to the left of the cursor.
  - Delete : to remove the character to the right of the cursor.
  - Space : to create a space between the characters.
  - Caps : to toggle between upper and lowercase characters.
  - Clear : to clear the entry field completely.

3. To confirm your entry, select OK on the keyboard and press **OK**.
   ➔ The info panel is now updated.

- To cancel the changes, select EXIT on the keyboard and press **OK**.

Erase title (DVD±RW only)

You can delete a specific title (recording) from the disc.

1. In title editing menu, use ▲▼ keys to select { **Erase Title** } and press **OK**.
   ➔ A warning message will appear.
2. Select YES in the menu to proceed or NO to abort, then press **OK** to confirm.

Overwrite title (DVD±RW only)

This function allows you to record a new title from the beginning of the current title in the DVD±RW. The other titles will not be affected.

1. In title editing menu, use ▲▼ keys to select { **Overwrite Title** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

Overwrite disc

You can select to overwrite only the recordings from the selected title to the end of the disc.

- In title editing menu, use ▲▼ keys to select { **Overwrite Disc** } and press **OK** to confirm.

Append recording

This function allows you to add a recording to the last existing title.

1. In title editing menu, use ▲▼ keys to select { **Append Title** } and press **OK**.
2. Press **REC SOURCE** to select the input channel to append.
3. Press **REC** ● to start append recording.
4. To stop append recording, press **STOP** ■.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

About video editing

After a recording has been made, this recorder allows you to edit the video content. You can add/delete chapter markers, hide unwanted scenes, change the picture in the index picture screen and split a title (recording) into two.

When you playback a recording in video edit mode, the entire recording will be played back including hidden scenes.

The edit functions available in the disc editing menu are:

{ **Title** }
Select a title (recording) to playback.

{ **Chapter** }
Select a chapter within the selected title.

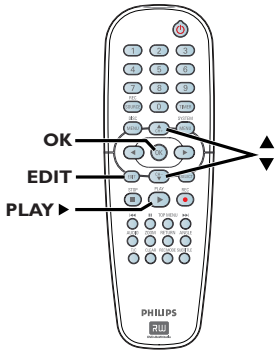
{ **Chapter Marker** }
Insert a chapter marker in the recording or erase a chapter marker to combine two chapters.

{ **Hide Chapter** }
Hide the unwanted scene in the recording.

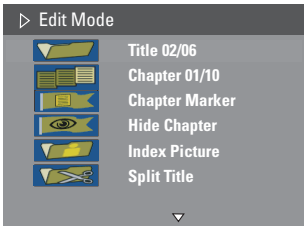
{ **Index Picture** }
Select a scene in the recording as the index picture screen.

{ **Split Title** } - DVD±RW only
Divide the recording into two under separate titles.

Accessing video editing menu



1. Insert a recorded DVD±R/±RW into the recorder.
   ➔ The Index Picture screen appears on the TV.
2. Use ▲▼ keys to select a title (recording).
3. Press **PLAY ▶** to start playback.
4. Press **EDIT** on the remote control.
   ➔ The video editing menu appears.



5. Use ▲▼ keys to access different options and press **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.
6. To exit, press **EDIT**.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

Editing/ Finalizing Recording (continued)

Selecting a title

This option shows the current title and the total number of titles on the disc.

1. During playback, press **EDIT** to display the video editing menu, then use▲▼ keys to select { **Title** } and press **OK**.
2. Use the **numeric keypad 0-9** to key in a title and press **OK**.
   ➔ The recorder will playback the selected title.

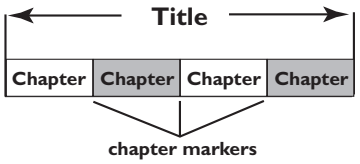
Selecting a chapter

This option shows the current chapter and the total number of chapters in the title.

1. During playback, press **EDIT** to display the video editing menu, then use ▲▼ keys to select { **Chapter** } and press **OK**.
2. Use the **numeric keypad 0-9** to key in the chapter and press **OK**.
   ➔ The recorder will playback the selected chapter.

Creating chapter marker

You can create a chapter by inserting chapter markers at any point within a title during playback. This will allow you to access a specific point in the recording easily or set a chapter you wish to hide.



1. During playback, press **EDIT** to display the video editing menu, then use ▲▼ keys to select { **Chapter Marker** } and press **OK**.
2. Use ▲▼ keys to select one of the options and press **OK** to confirm.

   { **Insert Marker** }
   Select this to insert a new chapter marker at the current point of playback.

   { **Delete Marker** }
   Select this to delete the current chapter marker (it refers to the closest marker before the current point of playback).

   { **Delete All Markers** }
   Select this to delete all the chapter markers in the current title.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

Editing/ Finalizing Recording (continued)

Hiding unwanted scenes

You can choose to hide certain scenes from playback (e.g. skipping commercials) or make it visible again.

1. Create a chapter marker at the start and end of the scene you want to hide. (See previous page on "Creating Chapter Markers").
2. Select the chapter you want to hide and start playback. (See previous page on "Selecting a chapter").
3. During playback, press **EDIT** to display the video editing menu, then use ▲▼ keys to select { **Hide Chapter** } and press **OK**.
   ➔ The current chapter will be hidden.

- If the video editing menu does not show, press **EDIT** on the remote control.

To unhide a chapter

1. Press **EDIT** on the remote control during playback.
   ➔ The video editing menu appears.
   ➔ While in editing mode, the hidden chapter/chapters will be played back.
2. Wait for the chapter you want to unhide to occur or use ⏮◀◀ ▶▶⏭ keys on the remote control to make a fast search.
3. Use ▲▼ keys to select { **Unhide Chapter** } and press **OK**.
   ➔ The current chapter will be visible during playback.

Helpful Hint:
– All the hidden chapters will be played back while in video editing mode.
– To locate a specific frame during playback, press PAUSE ❚❚ repeatedly to forward search to the frame that you want.

Changing Index Picture

The index picture is the picture of the title you will see when the recorder loads up the Index menu. Normally, the first frame of a recording is shown as the title's index picture.

1. During playback, use ◀ ▶ keys on the remote control to search for the scene to use, then press PAUSE ❚❚.
   ➔ Press PAUSE ❚❚ again to move forward to next pause scene.
2. Press **EDIT** to display the video editing menu, then use ▲▼ keys to select { **Index Picture** } and press **OK** to select the current scene as the index picture for the title.

Splitting a title (DVD±RW only)

You can divide the current title into two new titles. Each of these titles is characterized by its own index picture.

Warning! Once a title is divided, the process cannot be reversed.

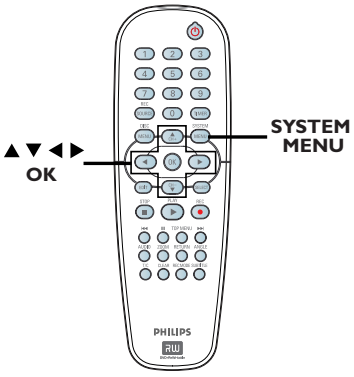
- During playback, press **EDIT** to display the video editing menu, then use▲▼ keys to select { **Split Title** } and press **OK** to divide the title at the current playback position.
  ➔ A new title will be shown at the Index Picture screen.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press ◀ to go back to the previous menu.

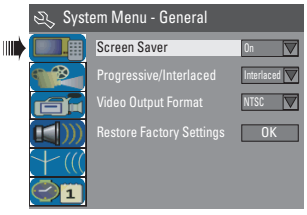
DVD System Menu Options

Accessing the System Menu

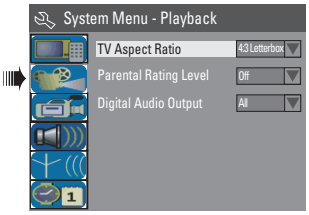
The system menu provides various options for you to adjust the recorder to suit your preferences.



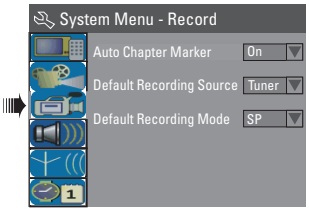
1. Press **SYSTEM MENU** on the remote control.
   ➔ The system menu appears on TV.
2. Use ▲▼ keys to highlight a menu item and press ▶ to access its options.
3. Use ▲▼ keys to highlight the setting you wish to change and press **OK** to confirm and return to the previous menu item.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **SYSTEM MENU**.



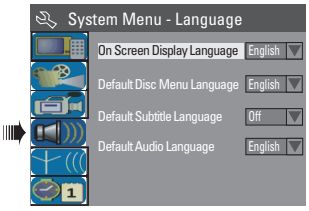
See the next page.



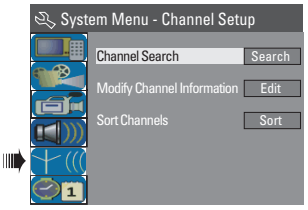
See this chapter " PLAYBACK settings".



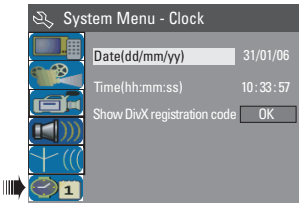
See the chapter "Recording – RECORD settings".



See this chapter "LANGUAGE settings".



See this chapter "CHANNEL SETUP settings".



See this chapter "CLOCK settings".

GENERAL settings (underlined options are the factory default settings)

Screen Saver

A screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long.

1) Use ▲▼ keys to select one of the options.

{ **On** } – Select this if you wish to turn off the TV screen after playback had been stopped or paused for longer than 15 minutes.

{ **Off** } – Select this to disable the screen saver.

2) Press **OK** to confirm your selection.

Progressive/ Interlaced

Progressive scan delivers a higher picture quality than the standard interlaced TV channel scan. It only works when you have connected the recorder's Y Pb Pr jacks to your TV that supports the progressive video input. Otherwise, the image may not appear or will be distorted. Please check your TV user manual for more information.

1) Use ▲▼ keys to select one of the options.

{ **Interlaced** } – Select to enable interlaced feature.

{ **Progressive** } – Select to enable progressive scan feature.

2) Press **OK** to confirm your selection.

Video Output Format

The colour system of the DVD system, DVD and TV should match. Only then will it be possible to play a DVD on this system. Before changing the TV system, determine the colour system of your TV set.

1) Use ▲▼ keys to select one of the options.

{ **NTSC** } – Select this if the connected TV set has the NTSC colour system. It will change the video signal of a PAL disc and output it to NTSC format.

{ **PAL** } – Select this if the connected TV set has the PAL colour system. It will change the video signal of an NTSC disc and output it to PAL format.

2) Press **OK** to confirm your selection.

Helpful Hint:

– *If a blank/distorted TV screen appears, wait for 10 seconds for the auto recovery.*

DVD System Menu Options (continued)

GENERAL settings (underlined options are the factory default settings)

Restore Factory Settings

This option will restore all the settings of this recorder, except for the PIN code.

Restore Factory settings can only be changed when there is no disc in the disc tray.

1) Use ▲▼ keys to select { **Restore Factory Settings** } and press **OK**.
   ➔ A warning message will appear.
2) Select OK in the menu to proceed or CANCEL to abort, then press **OK** to confirm.

PLAYBACK settings (underlined options are the factory default settings)

TV Aspect Ratio

Set the aspect ratio of the recorder according to the TV type you have connected.

1) Use ▲▼ keys to select one of the options.

{ **16:9** } – Select this for wide screen TV (frame ratio 16:9).

{ **4:3 Panscan** } – Select this for a full-height picture with both side trimmed.

{ **4:3 Letterbox** } – Select this for a 'wide screen' display with black bands on the upper and lower portions of the TV screen.

2) Press **OK** to confirm your selection.

Parental Rating Level

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level.

1) Press **OK** to access this menu and you will be prompted to enter your four-digit pin code.

2) Use the numeric keypad 0-9 to enter your four-digit pin code.
➔ When doing this for the first time, enter the default password '3308' .
➔ The set rating level menu appears.

- If you forget your four-digit pin code, the default password is 3308.

3) Use ▲▼ keys to select the desired parental level, then move to OK in the menu and press **OK** on the remote control to confirm.
➔ To disable parental controls and allow all discs to play, select { **Off** }.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

Rating explanations

{ **Off** } – Parental control is not active.
{ **1. Kid Safe** } ~ { **2. G** } – Childsafe; acceptable for viewers of all ages.
{ **3. PG** } – Parental Guidance suggested.
{ **4. PG13** } – Unsuitable for children under age 13.
{ **5. PG R** } ~ { **6. R** } – Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervized by a parent or adult guardian.

DVD System Menu Options (continued)

PLAYBACK settings (underlined options are the factory default settings)

Parental Rating Level

{ **7. NC 17** } – No children under age 17; not recommended viewing for children under age 17.

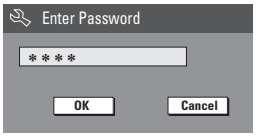
{ **8. Adult** } – Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

DVDs that are rated higher than the level you have selected will not play unless you enter your four-digit pin code.

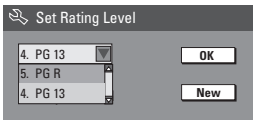
Helpful hints:

- *VCD, SVCD, CDs have no level indication, so parental control has no effect on these type of discs. This also applies to most illegal DVDs.*
- *Some DVDs are not coded with a rating though the movie rating may be printed on the disc cover. The rating level feature does not prohibit play of such discs.*

To change your password

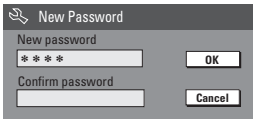


1) Select { **Parental Rating Level** } and press **OK**.
➔ You will be prompted to enter your four-digit pin code.



2) Use the **numeric keypad 0-9** to enter your four-digit pin code and select OK in the menu and press **OK** on the remote control to confirm.
➔ The set rating level menu appears.

3) Select New in the menu and press OK to access new password menu.



4) Use the **numeric keypad 0-9** to enter your new four-digit pin code, then press ▼ to select the next entry field and enter the same pin code a second time.

5) Select OK in the menu and press **OK** to confirm.
➔ To abort the change, select CANCEL and press **OK**.

Digital Audio Output

Adjust the digital output setting only if you have connected other devices to the coaxial jack on the recorder.

1) Use ▲▼ keys to select one of the options.

{ **All** } – Select this if you have used the COAXIAL jack on the recorder to connect to a stereo receiver that has a built in multichannel decoder.

{ **LPCM** } – Select this if the connected audio equipment is not capable of decoding multichannel audio Dolby Digital and MPEG-2 multichannel signals are converted to PCM (Pulse Code Modulation).

2) Press **OK** to confirm your selection.

DVD System Menu Options (continued)

RECORD settings

Auto Chapter Marker	Insert chapter markers within a title during recording. This allows you access to specific points on the recording. See the chapter "Recording – RECORD settings".
Default Recording Source	Define your preferred source of recording. The default source is selected when the recorder is switched on. See the chapter "Recording – RECORD settings".
Default Recording Mode	Define your preferred mode of recording. See the chapter "Recording – RECORD settings".

LANGUAGE settings

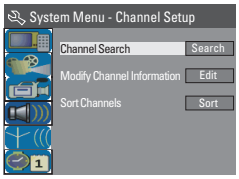
On-Screen Display Language	Select the menu language for this recorder on-screen display.
Default Disc Menu Language	Select the preferred disc menu language for DVD playback.
Default Subtitle Language	Select the preferred subtitle language for DVD playback.
Default Audio Language	Select the preferred audio language for DVD playback.

Helpful Hints:
– If the selected audio/subtitle language is not available on the disc, the disc's default setting language will be used instead.
– For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu.

DVD System Menu Options (continued)

CHANNEL SETUP settings

Channel Search



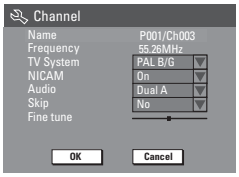
Automatically scan all the receivable analogue local TV channels and store these channels on the recorder.

- Use ▲▼ keys to highlight { **Channel Search** } and press **OK**.
  ➔ The automatic TV channel search starts. This process may take several minutes. Once complete, the total number of channels found and stored appears on the TV.

Modify Channel Information

Adjust a stored TV channel to your preference, improve the reception and the sound quality of that TV channel.

1) Use ▲▼ keys to highlight { **Modify Channel Information** } and press **OK**.
   ➔ The channel menu appears.



2) Use ▲▼ keys to select one of the options.

{ **Name** } – You can use the numeric keypad 0-9 to select the channel preset number which you wish to change.
– Use ▲▼keys to change alphabet/ number and use ◀▶ keys to select different entry fields, then press **OK** to confirm.

{ **Frequency** } – Shows the frequency of the current TV channel.
– If required, use ◀▶ keys to start the automatic frequency search and press **OK** to confirm.

{ **TV System** } – Set the TV system that produces the least distortion of picture and sound.
– Use ▲▼ keys to select a suitable sound mode, then press **OK** to confirm. (See chapter "TV System Guide" at the back of this manual for more information).

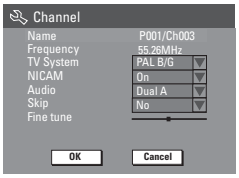
{ **NICAM** } – Turn on or off the digital sound transmission system which improves the sound quality of the TV channel.
– Use ▲▼ keys to select { **On** } or { **Off** }, then press **OK** to confirm.

{ **Audio** } – For bilingual TV programs, you can switch between stereo (original) and additional audio language.
– Use ▲▼ keys to select { **DUAL A** } or { **DUAL B** }, then press **OK** to confirm.

English

CHANNEL SETUP settings (continued)

Modify Channel Information (continued)



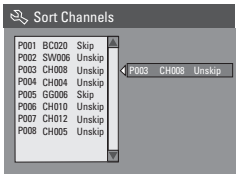
{ **Skip** } – Select this to set the channel to be skipped. The skipped channels can only be accessed by pressing the corresponding number button on the remote control.
– Use ▲▼ keys to choose { **Yes** } if you wish to skip this channel, then press **OK** to confirm.

{ **Fine-Tune** } – Select this to fine-tune the TV channel manually if the reception is poor.
– Use ◀▶ keys to adjust the frequency.

3) To confirm all settings, select OK and press **OK**.

Sort Channels

Rearrange all stored TV channels.



1) Use ▲▼ keys to highlight { **Sort Channels** } and press **OK**.
➔ The list of TV channel programs appears.
2) Use ▲▼ keys to highlight the channel you want to change and press **OK**.
➔ The selected channel will move to the right side of the screen.
3) Use ▲▼ keys to shift the TV channel to the desired position and press **OK** again.
➔ The selected channel will be inserted before the current position.
4) Repeat steps ❷~❸ until you have sorted all the TV channels you want.
5) Press **RETURN** on the remote control to go back to the previous menu.

DVD System Menu Options (continued)

CLOCK settings (underlined options are the factory default settings)	
Date (dd/mm/yy)	Use ▲▼ keys to change the number and use ◀▶ keys to select different entry fields, then press **OK** to confirm.
Time (hh:mm:ss)	Use ▲▼ keys to change the number and use ◀▶ keys to select different entry fields, then press **OK** to confirm.
Show DivX® Registration code	Select to view the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit us at www.divx.com/vod. 1) Press ▶ to display the registration code. 2) Use the registration code to purchase or rent videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and copy the video from your computer onto a CD-R/RW or recordable DVD disc for playback on this recorder.

Installing the latest software

The software installed in your recorder is continuously being refined for greater stability and compatibility of the set. Periodically, Philips will issue upgrades for the software which you copy onto a CD and install the software of your recorder.

Caution! Power supply must not be interrupted during upgrade!

- Visit Philips' website at 'www.philips.com/support' to check for the availability of the latest software upgrade.

  Note: When checking for the latest software upgrade, please also check for any accompanying instructions on installing the software.

Troubleshooting

WARNING
Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or Philips for help.

Problem (General)	Solution
No power.	– Press STANDBY-ON button on the front of the recorder to switch on the system. – Make sure the AC outlet has power.
Remote control does not work.	– Aim the remote control directly at the sensor on the front of the DVD recorder (not towards TV). – Remove any obstacles between the recorder and the remote control. Aim the remote control towards the set at different angles and/or distances. – Batteries are weak, replace the batteries. – Press REC SOURCE on the remote control to select an input source.
No picture.	– Switch on your TV and set to the correct Video In channel. Switch the TV channel until you see the DVD screen. Read chapter "Step 3 - Installation and Setup – Finding the correct viewing channel" for details. – Check the video connection between the recorder and the TV. – If the recorder is connected to a progressive scan TV, ensure you have enabled the { Progressive } option. Read the chapter "DVD System Menu Options – GENERAL Settings."
No sound.	– Check the audio connections, the red and white jacks. Read chapters "Step 1 : Basic Reorder Connections - Connecting the audio cables" for details. – Set the Digital output correctly, based on the equipment you connected to the recorder. Read chapter "DVD System Menu Options - PLAYBACK settings – Digital Audio Output" for details.
No TV signal received from the recorder.	– Have your antenna or cable TV signal checked. – Install the TV channel. Read chapter "Step 3: Installation and Setup - Setting your TV channel programs" for details.
A TV channel installed during the DVD recorder's automatic TV channel search is fuzzy or distorted.	– Check the video connection between the DVD recorder and the TV. – You can further fine-tune the signal of the TV channel. Read chapter on "DVD System Menu Options – CHANNEL SETUP Settings" – Press CH +/– to search for the same TV channel which may have a clearer picture.
Unable to eject tray	– Exit from any on-screen menu until you see the Philips wallpaper – Press STOP to stop any playback or recording, then press EJECT on the set.

Problem (Playback)	Solution
Disc does not play.	– Insert the disc with the label facing up. – Wrong region code. The DVD must be coded for ALL regions or Region 3 in order to be played back on this DVD recorder. – There is no recording on the disc or wrong disc type. Read chapter "Playback - Playable discs" for details. – Make sure the disc is not scratched or warped. Clean the disc or replace a new one. – Check if the disc is defective by trying another disc.
Distorted sound coming from a connected hi-fi system or amplifier.	– Do not connect any cables from the recorder to the 'Phono' input of your amplifier.
Unable to play DivX movies.	– Check that the DivX file is encoded according to the 'Home Theatre Profile' mode with DivX encoder. – Check that the DivX movie downloaded is a complete file.
The picture is distorted or black and white during playback.	– The disc does not match with the TV colour system standard (PAL/NTSC). – The disc is dirty, clean the disc. – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
A DVD±R/±RW recorded on this DVD recorder does not play on a DVD player.	– If a recording is too short, it is possible that a DVD player cannot detect it. Please observe the following 'minimum recording times'. Recording mode : {HQ} – 5 mins, {SP} – 10 mins, {EP} – 20 mins, {SLP} – 30 mins. – You have to finalize the DVD±R. Refer to chapter "Playing your recordings (DVD±R) on other DVD players" for details.
There is picture or sound interference with the TV reception.	– Have your antenna or cable TV signal checked. – Fine-tune your TV channel. Read chapter "Step 3 : Installation and Setup - Setting your TV channel programs" for details.

The message 'UNKNOWN DISC' appears.	– This message may appear if you insert a disc that may have encountered one of the following:
	  – Error during recording: The title may be missing.
	  – Error while changing the title/index picture: The original title/ index picture may be visible.
	  – Error while finalizing or the disc has not been finalized.

Troubleshooting (continued)

Problem (Recording)	Solution
The wrong TV channel was decoded (recorded) after you programmed a recording using the G-CODE system.	1) Enter the G-CODE programming number of the desired TV channel. 2) Press OK to confirm. 3) Check the channel number in the {Program #} input field. If this does not correspond to the desired TV channel, select this entry field and change the channel number. 4) Press OK to confirm.
Picture is fuzzy and brightness varies when copying DVD Video discs or prerecorded video cassettes.	– This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine, but the recording on the DVD recordable disc is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes. – The DVD recordable disc has a limited recording lifetime, please change a new disc for recording.
Recordings are not occurring as scheduled. New recordings cannot be made.	– The TV channel you want to record is not stored or you selected the wrong program number. Check the TV channels stored. – You have to reset the timer recording after adjusting the clock setting. – You cannot use the recorder to duplicate copy-protected materials (DVDs or videotapes) onto a DVD recordable disc.

Specifications

Picture/Display
- Aspect ratio: 4:3, 16:9
- D/A converter: 10 bit, 54 MHz
- A/D converter: 10 bit, 27 MHz
- Picture Enhancement: Progressive Scan

Sound
- D/A converter: 24 bit, 192 kHz
- A/D converter: 24 bit, 96 kHz
- Signal to noise ratio: 106
- Crosstalk (1kHz): 105 dB
- Dynamic Range (1kHz): 90 dB

Video Recording
- Recording system: PAL
- Compression formats: MPEG2

High Quality	: HQ
Standard Play	: SP
Extended Play	: EP
Super Long Play	: SLP

- Audio compression: Dolby Digital, PCM

Video Playback
- Disc playback media: CD, CD-R/-RW, DVD, DVD-Video, DVD+R/+RW, DVD-R/-RW SVCD, Video CD
- Compression formats: MPEG2, MPEG1,DivX
- Video disc playback system: NTSC, PAL

Audio Playback
- Disc playback media: CD, CD-R/-RW, MP3-CD, MP3-DVD
- Compression formats: Dolby Digital, MP3, MPEG2 Multichannel, PCM
- MP3 bit rates: 32~256 kbps and VBR

Still Picture Playback
- Disc formats: DVD+R/+RW, DVD-R/-RW, Picture CD
- Picture compression formats: JPEG
- Picture enhancement: Rotate

Storage Media
- Recording media: DVD+R, DVD+RW, DVD-R, DVD-RW

Tuner/Reception/Transmission
- TV system: PAL
- Aerial Input: 75 Ohm coaxial (IEC75)

Connectivity

Rear Connections:
- S-Video in/Out
- Video (CVBS) In/Out
- Component Video Out
- Audio left/right In/Out
- Digital audio out (coaxial)
- RF antenna in
- RF TV out
- Mains

Front Connections:
- i.LINK DV in (IEEE 1394 4-pin)
- Video In (CAM1)
- Audio left/right In

Convenience
- Programming/Timer Enhancements: Daily/ Weekly, Repeat Program, Manual Timer, One Touch Recording, G-CODE
- Programmable events: 20

Power
- Power supply: 110 - 240 VAC; 50 - 60 Hz
- Consumption: 25 W (typical)
- Standby power consumption: < 3W

Cabinet
- Dimensions (W x H x D) : 360 x 43 x 322 mm
- Net Weight : 3 kg

Frequently Asked Questions

What kind of disc should I use for recording?

You can record on both DVD±R and DVD±RW discs. They are compatible with DVD-Video players and DVD-ROM drives in computers.

What is the capacity of a DVD±R/±RW disc?

4.7GB, or equivalent to six CDs. You can store only one hour of recordings on a single disc at the highest quality (DVD standard) and about 6 hours recordings at the lowest quality (VHS standard).

What is the difference between DVD±R and DVD±RW?

DVD±R is "recordable" and DVD±RW is "rewritable". With a DVD±R, you can record multiple sessions on the same disc, but when the disc is full, you cannot record any more on the disc. The DVD±RW allows you to record over the same disc repeatedly.

What is DV?

Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to this recorder using a single DV cable for input and output of audio, video, data and control signals.

– This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.

– You cannot connect more than one DV camcorder at a time to this recorder.

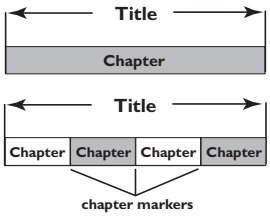
– You cannot control this recorder from external equipment connected via the DV IN jack.

Can I copy a VHS tape or DVD from an external player?

Yes, but only if the VHS tape or DVD is not copy protected.

What are Titles and Chapters?

A DVD disc contains Titles and Chapters, which are similar to the Titles and Chapters of a book. A Title is often a complete movie and is broken down into Chapters, or individual scenes from the movies.



Programs are recorded as a single title, it may consist of one chapter or a few chapters within a title, depending on the recording settings.

How do I set up Titles and Chapters?

The recorder automatically creates a new Title every time you start a new recording. You can then add Chapters to these recordings manually or have them automatically inserted at 5-minutes intervals.

What does "finalizing" a disc do?

Finalizing a disc locks the disc so it can no longer be used for recording. This is only required for DVD±R discs. It will then be compatible with virtually any DVD player. To remove a disc without finalizing it, simply stop recording and eject the disc. You will still be able to record on the disc if there is storage space for more recordings.

How good is the quality of the recording?

There are a few quality levels to choose from, ranging from "HQ" - High Quality (1 hour mode) to "SLP" - Super Long Play (6 hours mode). Press the **REC MODE** button on the remote control to choose the quality level that best suits your purpose and the length of material.

Record Mode	Picture Quality	Maximum Recording Time per Disc
HQ	High quality	1 hour
SP	DVD quality-Standard Play	2 hours
EP	VHS quality-Extended Play	4 hours
SLP	VHS quality-Super Long Play	6 hours

Glossary

Analogue: Sound that has not been turned into numbers. Analogue sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

AUDIO OUT jacks: Red and white jacks on the back of the system that send audio to another system (TV, Stereo, etc).

Chapter: Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL. These jacks send audio through multiple channels, instead of just two channels as analogue does.

Disc menu: A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

DivX 3.11/4.x/5.x/6: The DivX code is a patentpending, MPEG-4 based video compression technology, developed by DivXNetworks Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

Index Picture Screen: A screen that gives an overview of a DVD±RW or DVD±R. An Index Picture represents each recording.

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data then a regular CD.

MPEG: Motion Picture Experts Group. A collection of compression systems for digital audio and video.

Multichannel: DVDs are formatted to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

PBC: Playback Control. Refers to the signal recorded on video CDs or SVCDs for controlling playback. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive playback and searching.

PCM: Pulse Code Modulation. A digital audio encoding system.

Parental control: Limits disc play according to the age of the users or the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

Region code: A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

S-Video: Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In jack.

Surround: A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title: The longest section of a movie or music feature on DVD. Each title is assigned a title number, enabling you to locate the title you want.

VIDEO OUT jack: Yellow jack on the back of the DVD system that sends the DVD picture video to a TV.

Display panel symbols/ messages

The following symbols/ messages may appear on your recorder display:

- 00:00:00
  Multifunction display/ text line
  – Title/ track number
  – Total/ elasped/remaining title/track time
  – Additional information regarding the disc
  – TV channel number or source of video
  – Clock (This is displayed in Standby mode).
  – TV program title

- BLANK
  There are no recordings on the disc in the tray.

- FULL
  Disc is full. There is no storage space for new recordings.

- LOADING
  Disc is being recognized by the recorder.

- MENU
  The system setup menu, disc menu, title menu or timer menu display is on.

- NO DISC
  No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

- OPEN
  Disc tray is opening or opened.

- PHOTO
  A picture disc has been inserted.

- REGION
  When the DVD inserted is in a wrong region code as the recorder.

- STARTUP
  The recorder has been turned on.

- STOP
  When playback / recording is stopped.

- TOPMENU
  The recorder is in TOP MENU mode.

- ⏲ TIMER
  A timer recording has been programmed or is active.

- UPDATE
  The recorder is writing to the disc.

- UNKNOWN
  The recorder has encountered an error in handling the disc inserted.